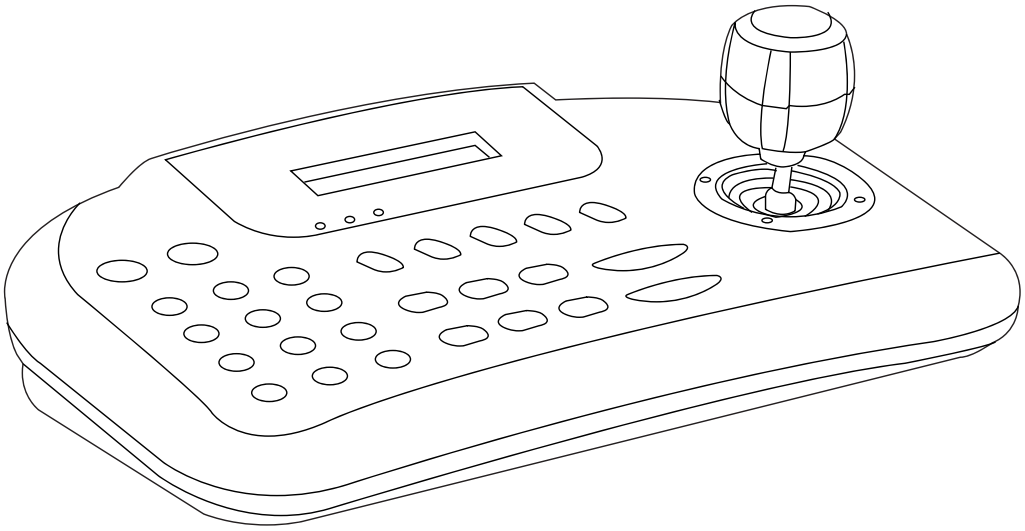
• **Keypad with joystick and LCD display**
430 502



430 603

USER MANUAL

LE03722AA

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Warning

- The installation and calibration must be carried out by highly skilled personnel.
- Do not open there may be a risk of electric shock.

Use only for the following temperature conditions: from (-10) to (+50) °C.
Do not use with voltages different from the ones specified.

⚠ Safety instructions

GB IE

This product should be installed in line with installation rules, preferably by a qualified electrician. Incorrect installation and use can lead to risk of electric shock or fire.
Before carrying out the installation, read the instructions and take account of the product's specific mounting location.
Do not open up, dismantle, alter or modify the device except where specifically required to do so by the instructions. All Legrand products must be opened and repaired exclusively by personnel trained and approved by Legrand. Any unauthorised opening or repair completely cancels all liabilities and the rights to replacement and guarantees.
Use only Legrand brand accessories.

IMPORTANT SAFEGUARDS

1. READ AND RETAIN INSTRUCTIONS
Read the instruction manual before operating the equipment.
Retain the manual for future reference.

2. CLEANING
Turn the unit off and unplug from the power outlet before cleaning. Use a damp cloth for cleaning.
Do not use harsh cleansers or aerosol cleaners.

3. ATTACHMENTS
Do not use attachments unless recommended by manufactured as they may affect the functionality of the unit and result in the risk of fire, electric shock or injury.

4. MOISTURE
Do not use equipment near water or other liquids.

5. ACCESSORIES
Equipment should be installed in a safe, stable location. Any wall or shelf mounting accessory equipment should be installed using the manufactures instructions. Care should be used when moving heavy equipment. Quick stops, excessive force, and uneven surfaces may cause the equipment to fall causing serious injury to persons and objects.

6. VENTILATION
Openings in the equipment, if any, are provided for ventilation to ensure reliable operation of the unit and to protect if from overheating. These openings must not be blocked or covered

7. POWER SOURCES
The equipment should be operated only from the type of power source indicated on the marking label.
If you are not sure of the type of power supplied at the installation location, contact your dealer.
For equipment designed to operate from battery power, refer to the operating instructions.

8. GROUNDING OR POLARIZATION
Equipment that is powered through a polarized plug (a plug with one blade wider than the other) will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. Do not defeat the safety purpose of the polarized plug.

Alternate Warning: If the equipment is powered through a three way grounding type plug, a plug having a third (grounding) pin, will only fit into a grounding-type power outlet. This is a safety feature.
Do not defeat the safety purpose of the grounding type plug. If your outlet does not have the grounding plug receptacle, contact your local electrician.

9. CORD AND CABLE PROTECTION
Route power cords and cables in a manner to protect them from damage by being walked on or pinched by items places upon or against them.

10. LIGHTNING
For protection of the equipment during a lightning storm or when it is left unattended and unused for long periods of time, unplug the unit from the wall outlet. Disconnect any antennas or cable systems that may be connected to the equipment. This willprevent damage to the equipment due to lightning or power line surges.

11. OVERLOADING
Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

12. SERVICING
Do not attempt to service the video monitor or equipment yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

13. DAMAGE REQUIRING SERVICE
Unplug the equipment from the wall outlet and refer servicing to qualified service personnel under the following conditions:
A. When the power supply cord or the plug has been damaged.
B. If liquid has spilled or objects have fallen into the unit.
C. If the equipment has been exposed to water or other liquids.
D. If the equipment does not operate normally by following the operating instructions, adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage to the unit.
E. If the equipment has been dropped or the casing damaged.
F. When the equipment exhibits a distinct change in performance.

14. REPLACEMENT PARTS
When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

15. SAFETY CHECK
Upon completion of any service or repairs to the equipment, ask the service technician to perform safety checks to verify that the equipment is in proper operating condition.

16. FIELD INSTALLATION
The installation of equipment should be made by a Qualified service person and should conform to all local codes.

INTRODUCTION

This remote keyboard is an accessory for PTZ dome camera, etc
It allows the user to control from 1 to 255 cameras.

1. Features

- Controls from 1 to 255 cameras.
- Multiple protocol supported in each channel (CMT, WDS,WCY, CYN, WSL, Pelco).
- RS 485/RS-422 communication (Tx : 3 port , Trx :1 port).
- Programmable user preferences. (preset, tour, group, etc.).
- Built-in 3-Axis proportional joystick
- Easy upload programmed data via serial communication port of PC.
- Built-in 2 lines character LCD.
- User password support.
- Designed for desktop use
- Programmable transmission speed for each ID. (2.4~57.6kbps)

Note: units should be set to the communication protocol and the same baud rate.

2. Hardware Overview

Hardware Components

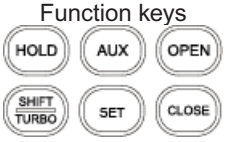
- This remote keyboard contains easy to use control keys on the front and simple input and output connectors on the back

Control buttons & connection

- The unit provides the primary operator interface. Most operations are one or two buttons presses.

- The following table contains a description for each buttons on the keyboard and port of cable connection. Use Figure 1 and Figure 2 as a reference.

Figure 1

Number	Button	Description
1	ESC / POWER	Pressing the ESC/POWER button enters the Power on/off or escape key. Right description led on(red). Pressing it again exits the POWER OFF. (Push the ESC PWR button (about 2~3 seconds) and then POWER OFF)
2	DISPLAY LCD	Displays Camera ID, Protocol, Function status, General status, etc
3	Number	Camera ID setting value change, PTZ setup(1+SET), Main setup(2+ SET)
4	Controller Function keys 	Hold: System locking (Unlocking: Input the Pass word 4 digit ****) SHIFT/TURBO: SHIFT-Key for special function (Customize) / TURBO -High Speed AUX: External equipment on/off SET: PTZ and main setup (1 + SET), (2+ SET) CLOSE: Exit from tour, preset and pattern functions OPEN: No action
5	Function keys	F1 ~ MENU/AUTO : Function Keys (Preset, Tour, Pattern, Scan, Auto). MENU: Used for Camera (Pan/Tilt) Menu adjustment.
6		Camera Focus control. Only if the speed dome is configured (not recommended) in manual setting.
		Camera Zoom control.

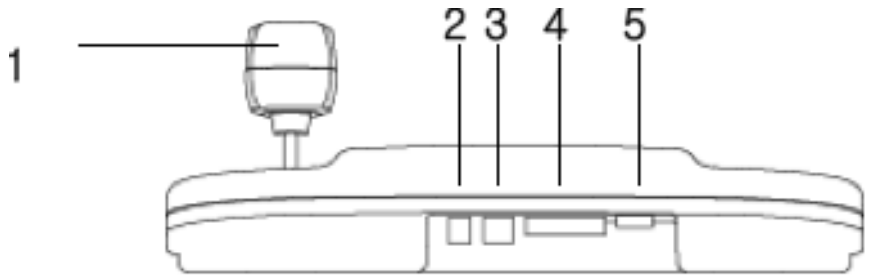
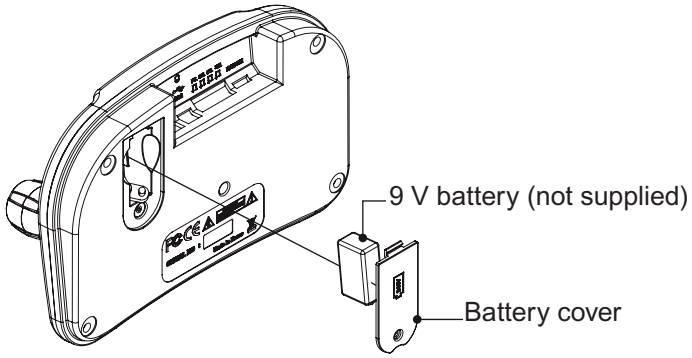


Figure 2

Number	Button	Description
1	Joystick	Telemetry Joystick allows precise control of Pan/Tilt/Zoom
2	DV 12V Input	DC 12V Input, 140mA
3	USB PORT	Universal Serial Bus Port, USB Mouse function (External Equipment communication port) Not used for Bticino range.
4	TRx Tx3 Tx1 RS-485 Tx2	RS-485/RS-422 communications. (Tx/Rx : 3 port , Trx :1 port)
5	Program	Download connector (For Program Update)

Battery change'

Battery allows to save parameters in case of power supply failure.

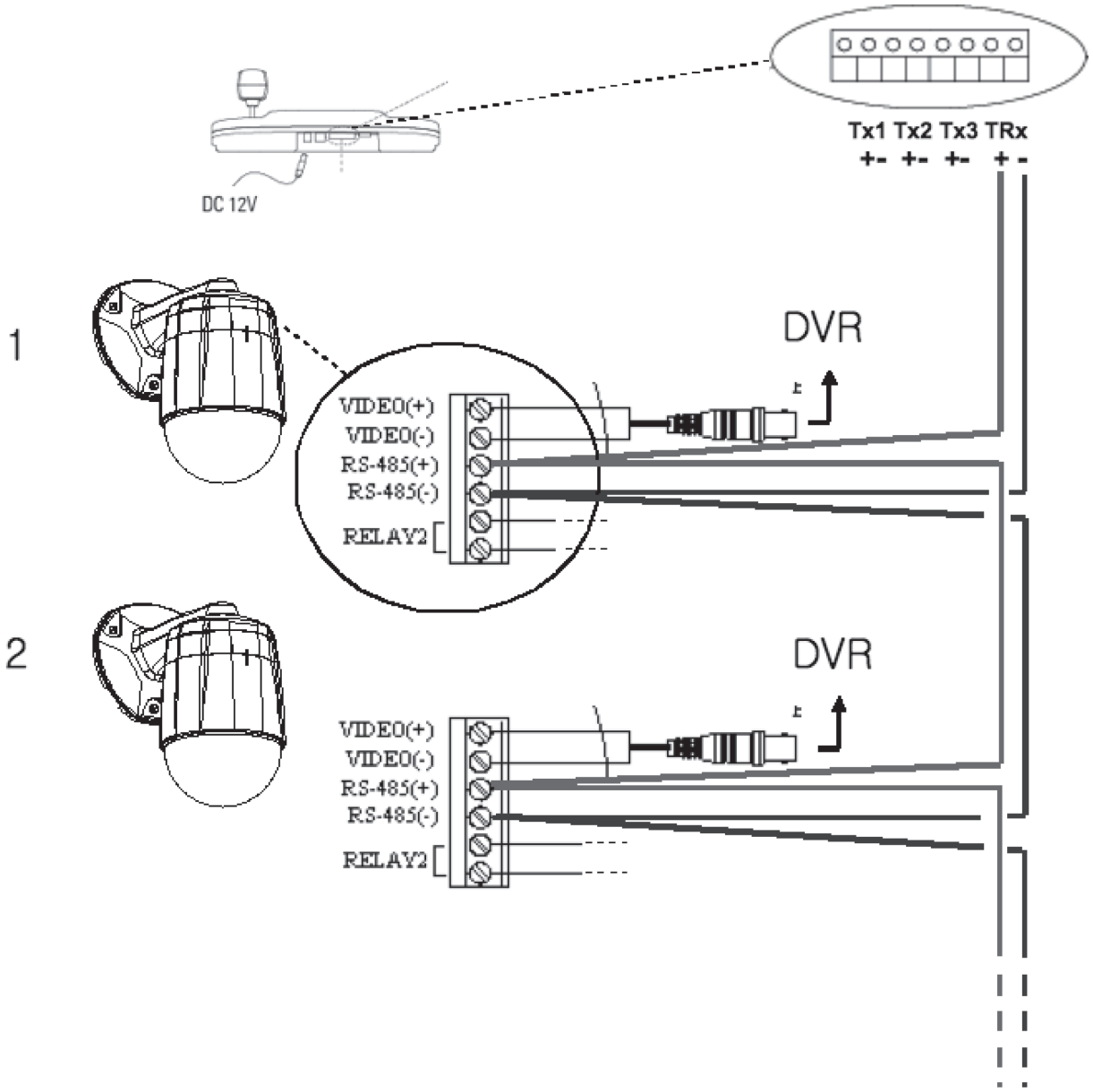


3. System Configuration and Wiring

Basic Installation

Use the Keyboard Configuration when only one keyboard is connected to the controlled units.

Connect the RS-485 output port of Remote keyboard to RS-485 input port of the first controlled unit using the terminal block



SYSTEM INSTALLATION & TYPICAL APPLICATIONS

1. System Installation

Keyboard Installation

Before you start connecting the keyboard equipment to your system, make sure the units to be controlled are completely installed and everything is working correctly. Before use of this keyboard, you should set the protocol and baud rate (2.4~57.6kbps) in the PTZ SETUP mode.

Use the following steps to set the communication protocol and baud rate.

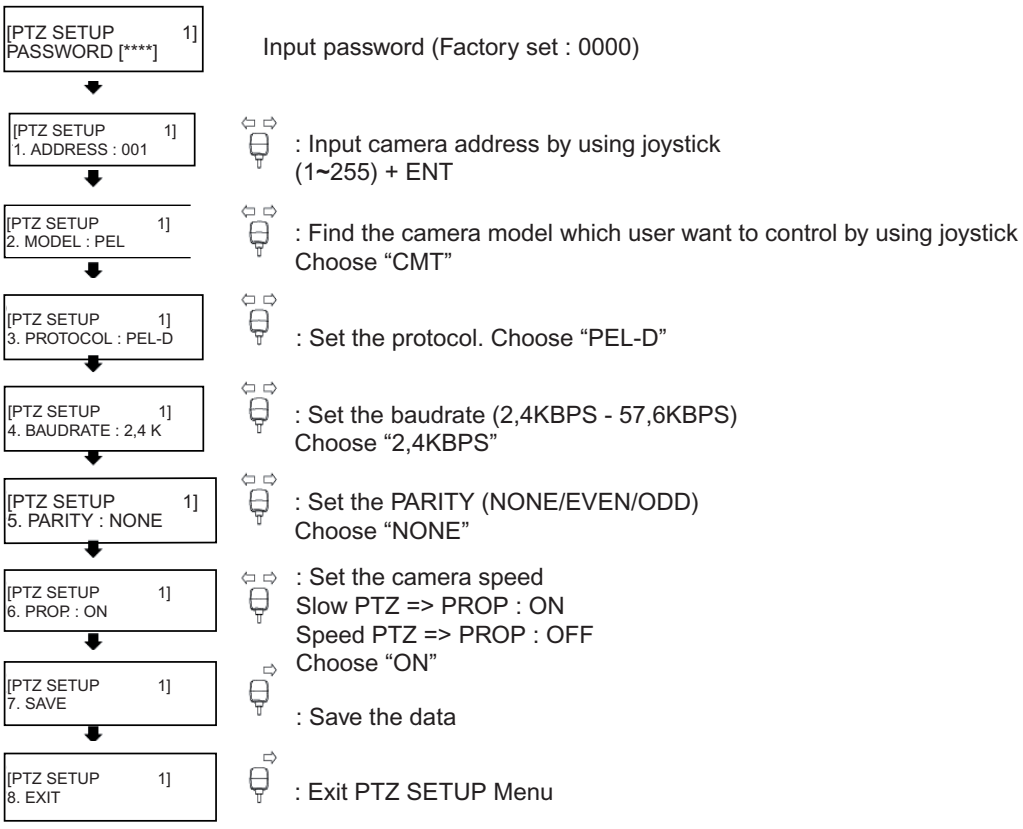
2. PTZ SETUP

PTZ SETUP

PTZ Setup mode, select 1+ SET , (2~3 seconds) setup screen allows you to make change ench programmable clause.

Note: The baud rate must be the same between the controlled unit and the keyboard.

PTZ SETUP

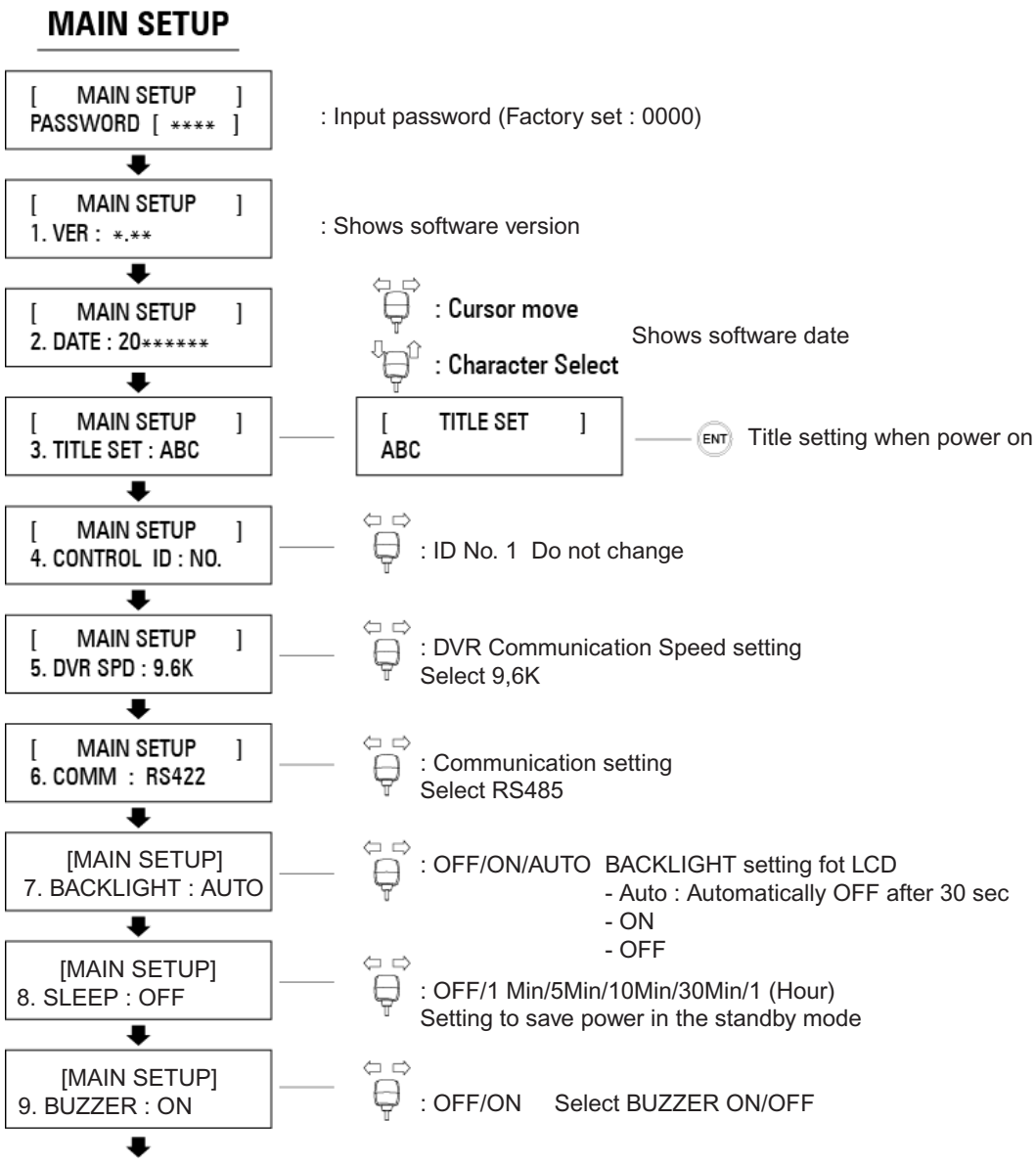

[PTZ SETUP 1]
PASSWORD [****]
Input password (Factory set : 0000)
[PTZ SETUP 1]
1. ADDRESS : 001
: Input camera address by using joystick
(1~255) + ENT
[PTZ SETUP 1]
2. MODEL : PEL
: Find the camera model which user want to control by using joystick
Choose “CMT”
[PTZ SETUP 1]
3. PROTOCOL : PEL-D
: Set the protocol. Choose “PEL-D”
[PTZ SETUP 1]
4. BAUDRATE : 2,4 K
: Set the baudrate (2,4KBPS - 57,6KBPS)
Choose “2,4KBPS”
[PTZ SETUP 1]
5. PARITY : NONE
: Set the PARITY (NONE/EVEN/ODD)
Choose “NONE”
[PTZ SETUP 1]
6. PROP : ON
: Set the camera speed
Slow PTZ => PROP : ON
Speed PTZ => PROP : OFF
Choose “ON”
[PTZ SETUP 1]
7. SAVE
: Save the data
[PTZ SETUP 1]
8. EXIT
: Exit PTZ SETUP Menu

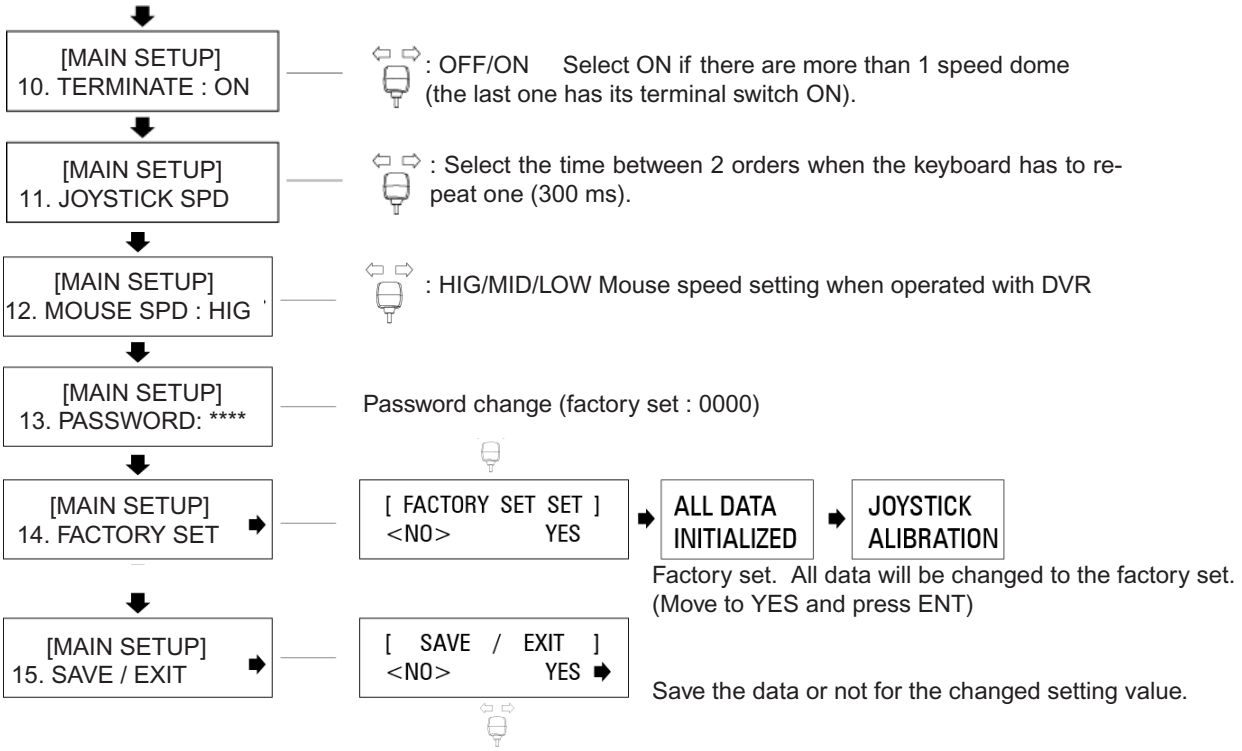
3. MAIN SETUP

MAIN SETUP

Main Setup mode, select 2+ SET (2~3 seconds).
Setup screen allows you to make change in each programmable clause.

Note: The baud rate must be the same between the controlled unit and the keyboard.

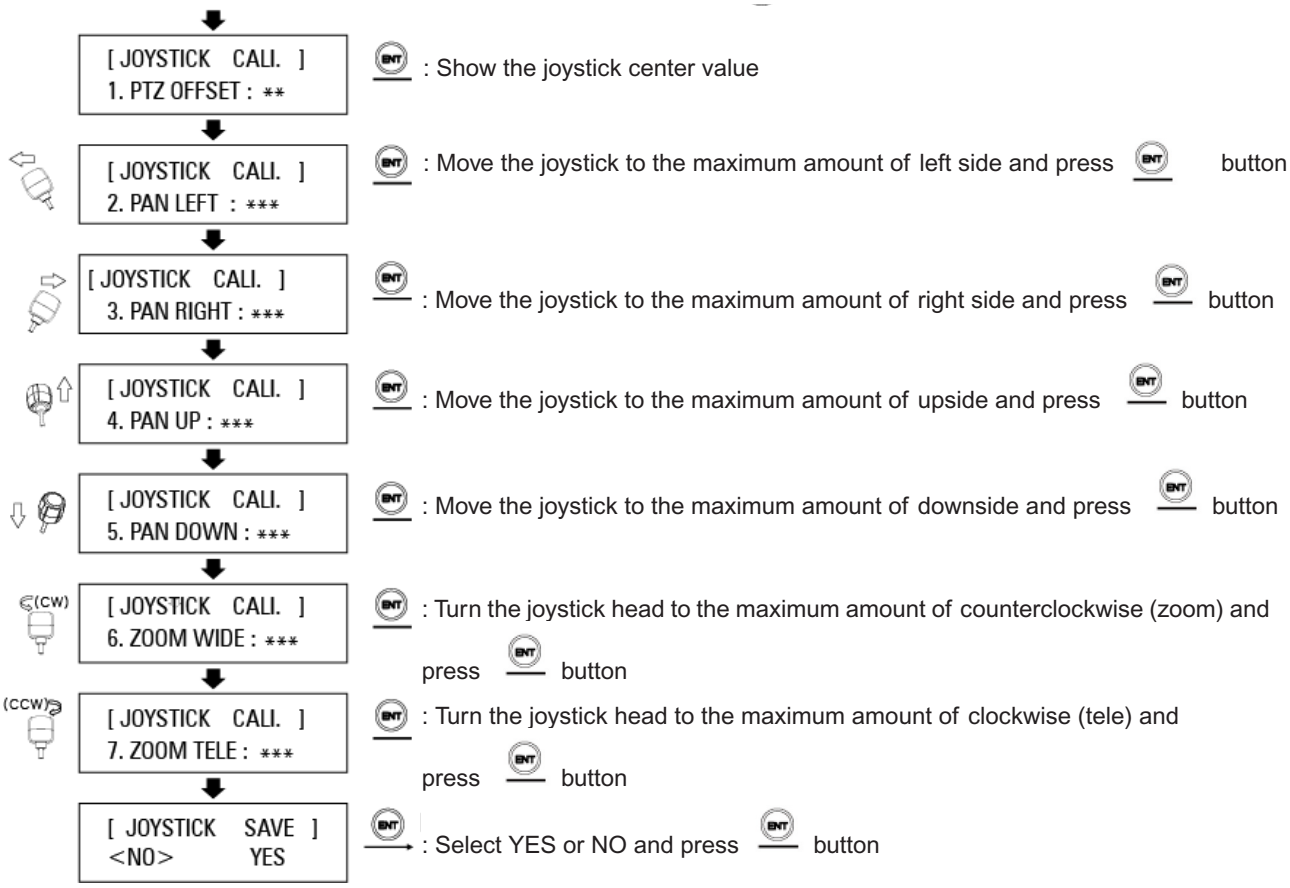



[MAIN SETUP]
10. TERMINATE : ON
: OFF/ON Select ON if there are more than 1 speed dome (the last one has its terminal switch ON).
[MAIN SETUP]
11. JOYSTICK SPD
: Select the time between 2 orders when the keyboard has to repeat one (300 ms).
[MAIN SETUP]
12. MOUSE SPD : HIG
: HIG/MID/LOW Mouse speed setting when operated with DVR
[MAIN SETUP]
13. PASSWORD: ****
Password change (factory set : 0000)
[MAIN SETUP]
14. FACTORY SET
[FACTORY SET SET]
<NO> YES
ALL DATA INITIALIZED
JOYSTICK ALIBRATION
Factory set. All data will be changed to the factory set. (Move to YES and press ENT)
[MAIN SETUP]
15. SAVE / EXIT
[SAVE / EXIT]
<NO> YES
Save the data or not for the changed setting value.

4. JOYSTICK CALIBRATION

This function is useful to set the maximum joystick movements. To be done only if you remark any problem.

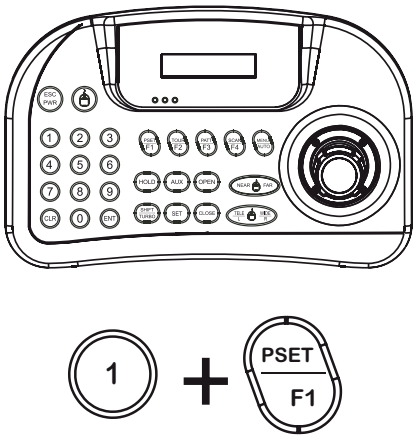
If you press button 3 + SET for 2~3 seconds), you can enter into the JOYSTICK CALIBRATION menu.

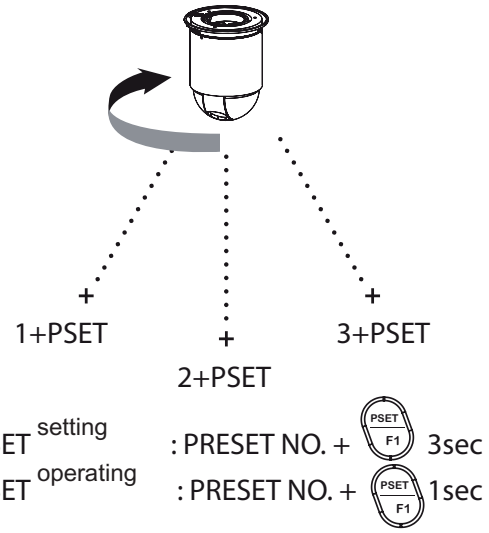

[JOYSTICK CALI.]
1. PTZ OFFSET : **
: Show the joystick center value
[JOYSTICK CALI.]
2. PAN LEFT : ***
: Move the joystick to the maximum amount of left side and press ENT button
[JOYSTICK CALI.]
3. PAN RIGHT : ***
: Move the joystick to the maximum amount of right side and press ENT button
[JOYSTICK CALI.]
4. PAN UP : ***
: Move the joystick to the maximum amount of upside and press ENT button
[JOYSTICK CALI.]
5. PAN DOWN : ***
: Move the joystick to the maximum amount of downside and press ENT button
(CW)
[JOYSTICK CALI.]
6. ZOOM WIDE : ***
: Turn the joystick head to the maximum amount of counterclockwise (zoom) and press ENT button
(CCW)
[JOYSTICK CALI.]
7. ZOOM TELE : ***
: Turn the joystick head to the maximum amount of clockwise (tele) and press ENT button
[JOYSTICK SAVE]
<NO> YES
: Select YES or NO and press ENT button

5. BASIC FUNCTIONS : SETTING AND CONTROL

PRESET

User can set the camera positions that have to be repeated automatically.

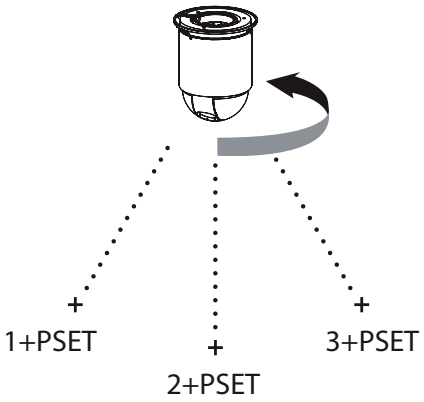




To exit from preset function, press CLOSE key when the camera is fixed.

TOUR

When Tour function runs, the camera moves from the preset assigned as the 1st point to the preset assigned as the last point in sequence. The camera will stay to each point for the time set to the “dwell” time and will move to the next point.

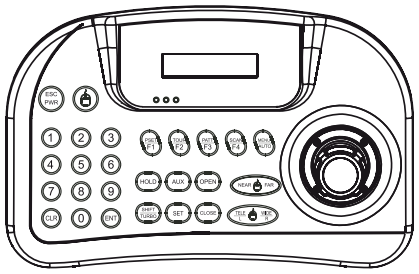


- **Tour setting**

- Press the MENU AUTO key for more than 3 seconds, OSD menu will appear.
- Go to Dome Camera Setup menu with the joystick, and press the NEAR key.
- Go to Group Setup Menu, press the NEAR key.
- Go to Group No. option and press NEAR Key. Select the group number and press NEAR key.
- Go to Edit Group + NEAR
- Go to No Action Line + NEAR
- Go to 1 line + NEAR
- Select the first action (preset position, swing, pattern).
- “Dwell” time is the time during which the camera will stay on each preset position, or the time during which the camera remains fixed after a swing or a pattern.

OPT is camera speed, in degree per second.

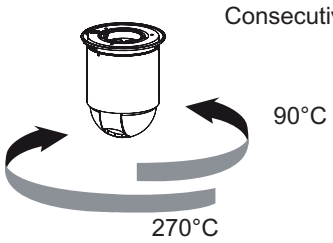
- **Tour Operating :**



To exit from tour function, press CLOSE key when the camera is fixed.

PATTERN

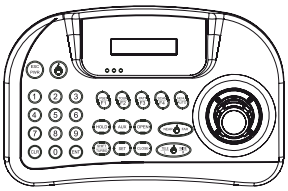
Camera memorizes the path (mostly curve path) by the controller joystick for an assigned time and revives the path exactly ` as it was memorized.



PATTERN setting : PATTERN NO. + PATT F3 3 sec
- Move the camera with the joystick.

- Memorize the pattern by pressing NEAR key.

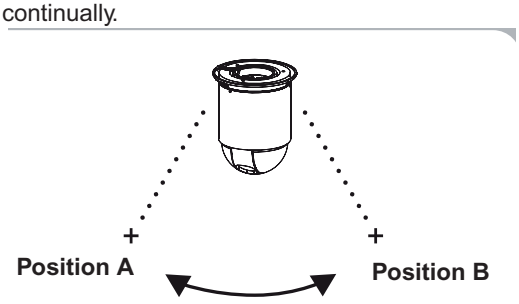
PATTERN operating : PATTERN NO. + PATT F3 1 sec



- To exit from Pattern function, press CLOSE key at the end of the pattern.

SCAN

Camera moves between 2 positions continually.

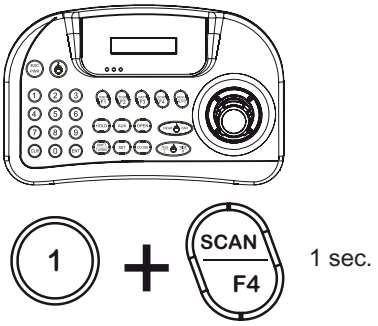


- **Scan setting:**

  - Press the MENU/AUTO key for more than 3 seconds, OSD menu will appear.

  - Go to Dome Camera Setup + NEAR .
  - Go to Swing Setup + NEAR .
  - Select the 2 preset positions.
  - Choose the speed between the 2 positions, in degree per second.
  - Exit from the menu.

- **Scan operating :**



To exit from scan function, press CLOSE key when the camera is fixed.

SYSTEM LOCKING

- To lock the key board, press HOLD key (2s).
- To unlock it, enter the password (0000 by default).

6. SPECIFICATIONS

Model	391856
Keyboard Communication	Interface: RS-485 (Tx 3 port, Trx 1 port) P
	Pan/Tilt operating distance :4700 ft (1029m) No 24 AWG wire
	Protocol: Multiple (Pelco-d, etc.) (Baud rate selectable)
Connector Type Date	TERMINAL BLOCK(8p)
Keyboard Keypad	Rubber button
	Numeric keypad and camera function key
Joystick	Stick 3-axis, variable speed with zoom
Input Voltage	12VDC (power supply) o 9VDC (battery)
Power Consumption	Max.140mA
LCD Display	Graphic display : 16 * 2 Graphic display
Operating Temperature	0 to 45°C
Humidity	10% -70 % non-condensing
Dimension & Weight	280(W) x 174(D) x 92(H), Net : 0.7 Kg Gross: 1.7Kg
Packing include	KEYBOARD, ADAPTOR
	Packing include : MANUAL, TERMINAL BLOCK(8p)